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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/582,704 | 06/01/2007 | Maria Isabel Crespo Crespo | LABO-003/02US 311815-2022 | 6572 |
| 58249 COOLEY LLP | 7590 01/03/201 | 1 | EXAM | IINER |
| ATTN: Patent Group | | | RAO, DEEPAK R | |
| Suite 1100 777 - 6th Street | t, NW | | ART UNIT | PAPER NUMBER |
| WASHINGTO | N, DC 20001 | | 1624 | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | |
|---|---|---|-----------|
| | 10/582,704 | CRESPO CRESPO | ET AL. |
| Office Action Summary | Examiner | Art Unit | |
| | Deepak Rao | 1624 | |
| The MAILING DATE of this communication ap Period for Reply | ppears on the cover sheet w | ith the correspondence addr | ress |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perioder Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MOI tte, cause the application to become A | CATION. reply be timely filed NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133). | |
| Status | | | |
| 1) ☐ Responsive to communication(s) filed on <u>03</u> . 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under | is action is non-final. ance except for formal mat | • | nerits is |
| Disposition of Claims | | | |
| 4) ☑ Claim(s) 1.6.14.16 and 18 is/are pending in the day of the above claim(s) is/are withdress. 5) ☑ Claim(s) 1.6.16 and 18 is/are allowed. 6) ☑ Claim(s) 14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/ | awn from consideration. | | |
| Application Papers | | | |
| 9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examination is objected to by the Examination is objected. | ccepted or b) objected to e drawing(s) be held in abeya ection is required if the drawing | nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR | , , |
| Priority under 35 U.S.C. § 119 | | | |
| 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list | nts have been received. nts have been received in A fority documents have beer au (PCT Rule 17.2(a)). | Application No received in this National S | tage |
| Attachment(s) 1) \(\sum \) Notice of References Cited (PTO-892) 2) \(\sum \) Notice of Draftsperson's Patent Drawing Review (PTO-948) | | Summary (PTO-413) s)/Mail Date | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 20101203. | | Informal Patent Application | |

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DETAILED ACTION

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Claims 1, 6, 14, 16 and 18 are currently pending in this application.

Note: The listing of claims submitted with the Request for Continued Examination (RCE) filed does not include the complete number of claims that were present in the application. The original application as filed contained 34 claims, of which claims 9-13, 15, 17, 20-27 and 29-34 were canceled in the preliminary amendment filed June 1, 2007; claim 28 was canceled in the amendment filed June 7, 2010; and claims 2-5, 7-8 and 19 have been canceled in the instant amendment filed December 3, 2010. As per 37 CFR 1.121(c) (provided below for convenience), "each amendment document must include a complete listing all claims ever presented". The instant amendment did not include the status of claims 20-34 which were previously canceled.

- 37 CFR 1.121 (c) Claims. Amendments to a claim must be made by rewriting the entire claim with all changes (e.g., additions and deletions) as indicated in this subsection, except when the claim is being canceled. Each amendment document that includes a change to an existing claim, cancellation of an existing claim or addition of a new claim, must include a complete listing of all claims ever presented, including the text of all pending and withdrawn claims, in the application. The claim listing, including the text of the claims, in the amendment document will serve to replace all prior versions of the claims, in the application. In the claim listing, the status of every claim must be indicated after its claim number by using one of the following identifiers in a parenthetical expression: (Original), (Currently amended), (Canceled), (Withdrawn), (Previously presented), (New), and (Not entered).
- (1) Claim listing. All of the claims presented in a claim listing shall be presented in ascending numerical order. Consecutive claims having the same status of "canceled" or "not entered" may be aggregated into one statement (e.g., Claims 1–5 (canceled)). The claim listing shall commence on a separate sheet of the amendment document and the sheet(s) that contain the text of any part of the claims shall not contain any other part of the amendment.
- (2) When claim text with markings is required. All claims being currently amended in an amendment paper shall be presented in the claim listing, indicate a status of "currently amended," and be submitted with markings to indicate the changes that have been made relative to the immediate prior version of the claims. The text of any added subject matter must be shown by underlining

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the added text. The text of any deleted matter must be shown by strike-through except that double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive characters. The text of any deleted subject matter must be shown by being placed within double brackets if strike-through cannot be easily perceived. Only claims having the status of "currently amended," or "withdrawn" if also being amended, shall include markings. If a withdrawn claim is currently amended, its status in the claim listing may be identified as "withdrawn—currently amended."

- (3) When claim text in clean version is required. The text of all pending claims not being currently amended shall be presented in the claim listing in clean version, i.e., without any markings in the presentation of text. The presentation of a clean version of any claim having the status of "original," "withdrawn" or "previously presented" will constitute an assertion that it has not been changed relative to the immediate prior version, except to omit markings that may have been present in the immediate prior version of the claims of the status of "withdrawn" or "previously presented." Any claim added by amendment must be indicated with the status of "new" and presented in clean version, i.e., without any underlining.
- (4) When claim text shall not be presented; canceling a claim.

 (i) No claim text shall be presented for any claim in the claim listing with the status of "canceled" or "not entered."
- (ii) Cancellation of a claim shall be effected by an instruction to cancel a particular claim number. Identifying the status of a claim in the claim listing as "canceled" will constitute an instruction to cancel the claim.
- (5) Reinstatement of previously canceled claim. A claim which was previously canceled may be reinstated only by adding the claim as a "new" claim with a new claim number.

Any subsequent amendment in this application must include status of all claims ever presented, including those canceled.

Withdrawn Rejections/Objections:

Applicant is notified that any outstanding rejection/objection that is not expressly maintained in this office action has been withdrawn or rendered moot in view of applicant's amendments and/or remarks.

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The following rejections are under new grounds:

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 14 recites several species through out the claim for which there is insufficient antecedent basis for this limitation in claim 1 on which claim 14 is dependent. The claim contains several compounds wherein the substituent at the 2-position is other than the monocyclic heteroaryl groups provided in the definition of R¹ in claim1, i.e., furyl, thienyl and pyrazolyl.

Particularly, see the following compounds, which have "**2-pyridinyl**", listed in page 8, lines 13-24; and page 9, lines 1-7:

6-(2-Furyl)-2-pyridin-2-ytpyrimidin-4-amine;

N-[6-(2-Fury\$)-2-pyridin-2-y}pyrimidin-4-yl]propanamide;

2-(3-Methylpyridin-2-yl)-6-(1H-pyrazol-1-yl)pyrimidin-4-amine;

N-{2-(3-methylpyridin-2-yl)-6-(1H-pyrazol-1-yl)pyrimidin-4-yl]propanamide;

6-(1/A-Pyrazol-1-yl)-2-pytidin-3-ylpytimidin-4-amine;

N-(6-(1H-Pyrazol-1-yl)-2-pyridin-3-ylpyrimidin-4-yl]acetamide;

N-{6-(1//-Pyrazo)-1-yl)-2-pyridin-3-ylpyrimidin-4-yl]propanamide;

6-(3,5-Dimethyl-177-pyrasol-1-yl)-2-pyridin-3-ylpyrimidin-4-amine;

N-{6-{3,5-Dimethyl-1M-pyraxol-1-yl}-2-pyridin-3-ylpyrimidin-4-yl}-acetamide;

N-(6-(3,5-Dimmbyl-1H-pyrazol-1-yl)-2-pyridin-3-ylpyrimidin-4-yl]-propsmamide;

N-(6-(3,5-Dimethyl-1 M-pyrazoi-1-yl)-2-pyridin-3-ylpyrimidin-4-yl]-3,3,3-trifluoropropanamide,

2-Pyridin-3-yl-6-(\$19-3,2,4-triazol-1-yl)pyrimidin-4-smine;

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N-[6-(2-Furyl)-2-pyridin-4-ylpyrimidin-4-yl]propanamide;

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3,3,3-Trifluoro-N-(2-pyridin-3-yl-6-(1H-1,2,4-triszol-1-yl)pyrimidin-4-yl]propanamide;
6-(2-Furyl)-2-pyridin-3-ylpyrimidin-4-ylamine;
N-[6-(2-Furyl)-2-pyridin-3-ylpyrimidin-4-yl]propanamide;
N-[6-(3,5-Dimethyl-1H-pyrszol-1-yl)-2-pyridin-4-ylpyrimidin-4-yl]propanamide;
6-(3,5-dimethyl-1H-pyrszol-1-yl)-2-pyridin-4-ylpyrimidin-4-amine;
6-(2-Furyl)-2-pyridin-4-ylpyrimidin-4-ylamine;
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Further, the following compounds listed in page 9, lines 8-10; and page 12, lines 14-16 and 20-

24, have "2-(1,3-thiazolyl)":

```
6-(2-Furyl)-2-(1,3-thiazol-2-yl)pyrimidin-4-amine;
N-[6-(2-Furyl)-2-(1,3-thiazol-2-yl)pyrimidin-4-yl]proparamide;
2-(4-Fluorophenyl)-N-[6-(2-furyl)-2-(1,3-thiazol-2-yl)pyrimidin-4-yl]acetamide;
2-(3,4-Dimethoxyphenyl)-N-[6-(2-furyl)-2-(1,3-thiazol-2-yl)pyrimidin-4-yl]acetamide;
6-(1H-Pyrazol-1-yl)-2-(1,3-thiazol-2-yl)pyrimidin-4-amine;
2-(3,4-Dimethoxyphenyl)-N-[6-(1H-pyrazol-1-yl)-2-(1,3-thiazol-2-yl)pyrimidin-4-amine;
N-(Cyclopropylmethyl)-6-(2-furyl)-2-(1,3-thiazol-2-yl)pyrimidin-4-amine;
N-[2-(3,4-Dimethoxyphenyl)ethyl]-6-(2-furyl)-2-(1,3-thiazol-2-yl)pyrimidin-4-amine;
6-(2-Furyl)-N-(2-pyridin-3-ylethyl)-2-(1,3-thiazol-2-yl)pyrimidin-4-amine;
6-(2-Furyl)-N-[(1S*,2R*)-2-phenylcyclopropyl]-2-(1,3-thiazol-2-yl)-pyrimidin-4-amine
(*relative trans configuration);
```

Deletion of the above compounds from claim 14 obviates the rejection.

Note:

(a) Applicant's cooperation is requested to thoroughly review all compounds listed in pages 4-13 and make certain they meet the antecedent basis in claim 1.

(b) The above deficiencies were not previously brought into applicant's attention and therefore, to provide applicant a fair chance to review all of the compounds in claim 14, including those listed above and make appropriate corrections, the deficiencies have been set forth in a written communication.

Allowable Subject Matter

Claims 1, 6, 16 and 18 are allowed. Claim 14 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Receipt is acknowledged of the Information Disclosure Statement filed on December 3, 2010 is acknowledged and a copy is enclosed herewith.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deepak Rao whose telephone number is (571) 272-0672. The examiner can normally be reached on Monday-Friday from 8:00am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson, can be reached at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Deepak Rao/ Primary Examiner Art Unit 1624

January 3, 2011